	Application No.	Applicant(s)
	10/806,501	CORBAN, J. ERIC
Notice of Allowability	Examiner	Art Unit
	Ronald D Hartman Jr.	2121
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS In herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in the post of the second of the sec	his application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to the amendment file	<u>d on 12/23/2004</u> .	
2. The allowed claim(s) is/are 1-15 and 20-25 (renumbered	by the Examiner as 1-21).	
3. \boxtimes The drawings filed on <u>22 March 2004</u> are accepted by the	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority a) a) All b) Some* c) None of the: 1. Certified copies of the priority documents had 2. Certified copies of the priority documents had 3. Copies of the certified copies of the priority documents had lnternational Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi		
 CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 	erson's Patent Drawing Review (er's Amendment / Comment or in 1.84(c)) should be written on the	the Office action of drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material) 6. ☐ Interview Sum Paper No./Ma /08), 7. ☐ Examiner's Ar	rmal Patent Application (PTO-152) nmary (PTO-413), ail Date mendment/Comment tatement of Reasons for Allowance

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DETAILED ACTION

1. Claims 1-15 and 20-25 are presented for further examination.

Priority

2. Once again, Priority is acknowledged to parent application No. 08/510,055 which was filed in 8/1/1995 and which has since matured into U.S. Patent No. 6,092,919, as well as to 09/585,105 which was filed in 5/31/2000 and which has since matured into U.S. Patent No. 6,757,570. Therefore the effective priority date, with respect to applicable prior art, of the instant invention appears to be **8/1/1995**.

Allowable Subject Matter

3. Claims 1-15 and 20-25 are allowed.

As per claims 1-15 and 20-25, specifically independent claims 1 and 14, the prior art of record fails to teach a computer system for controlling a non-linear physical process, the system comprising a linear controller and a neural network, wherein connection weights of the neural network are adjusted on-line, that is, as the neural network and the linear controller are used to control the process, wherein a modified control signal which is outputted from the neural network is combined with the output from the linear controller in order to control the non-linear physical process, in combination with the other claimed features and or limitations as claimed by the claimed invention.

Response to Arguments

4. Applicant's arguments; see Remarks/Arguments, filed 12/23/2004, with respect to claims 1-15 have been fully considered and are persuasive. Therefore, the rejections applied using Mathur, U.S. Patent No. 5,625,552, of claims 1-15 has been withdrawn.

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Therefore, since the rejection of Mathur has been withdrawn, all rejections formed using Mathur as a basis, specifically the rejections made using Gold et al., U.S. Patent 5,213,282, have been withdrawn as well.

Specifically, the applicant has amended claims 1 and 14 to include features not present in the Mathur Patent. Specifically, the addition of a feature which requires the training of the neural network to be performed on-line and a feature wherein the output from the linear controller is combined with the output of the neural network in order for the non-linear process to be controlled. These features are not found in Mathur and are not rendered obvious by any references located by the Examiner of record.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald D Hartman Jr. whose telephone number is (571) 272 - 3684. The examiner can normally be reached on Mon. - Fri., 11:30 am - 8:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached at (571) 272 - 3687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Ronald D Hartman Jr. Patent Examiner Art Unit 2121

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